

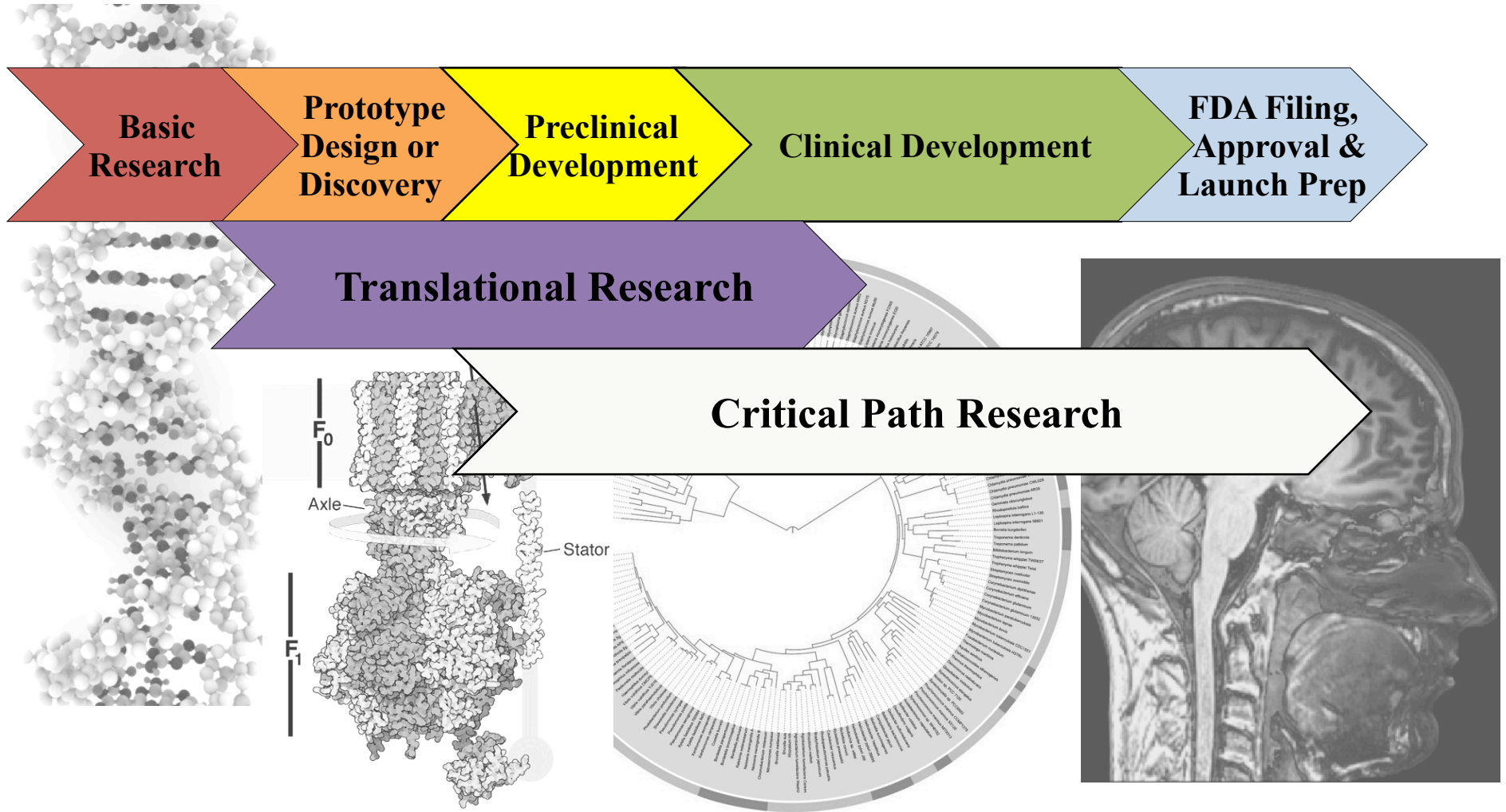
Intranet data integration using Semantic MediaWiki



Johnson & Johnson
PHARMACEUTICAL RESEARCH
& DEVELOPMENT

Laurent Alquier,
Project Lead, Informatics CoE

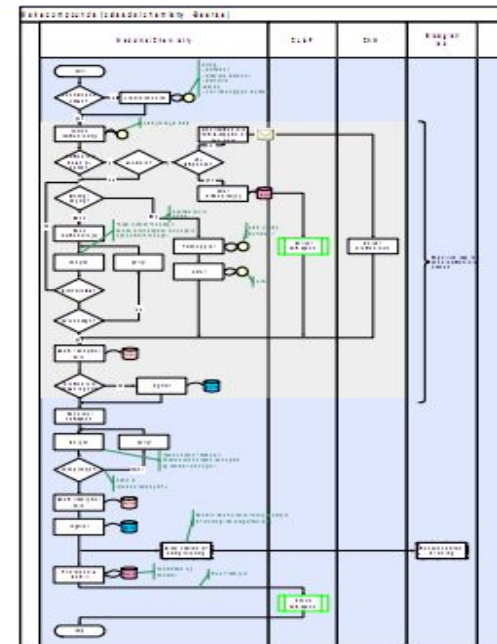
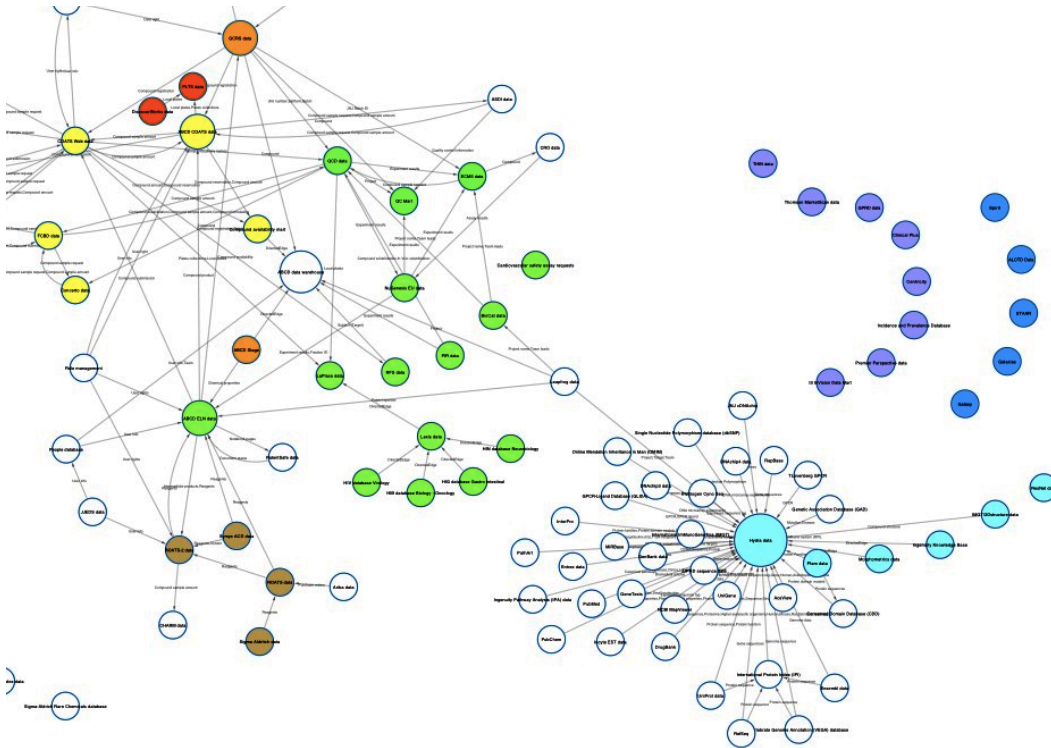
Scientists are looking for answers to translational questions



Instead they research how to find and access data.

Which data source should I choose ?
Which interfaces are available ?

Can I access it ?
Who should I talk to ?



Scientists want to do Science, not Data Management.

Typical questions

- What are the **directions between two J&J sites** ?
- What is the meaning of **KOL** ? **HLM** ? **DRU** ?
- What data sources can we use to **compare biological pathways** ?
- Can you give us a list of **R&D applications, related servers and stakeholders** and send us an update every six months ?

(Based on real questions)

Helping J&J employees share what they know.

Johnson & Johnson

Welcome Lalquier | My Site | My talk | My preferences | My watchlist | My contributions |



This site: knowIT



[Home](#) [Browse content](#) [Categories](#) [Topics](#) [A-Z index](#) [Glossary](#)

[+ Add a New Page](#)

Search

Explore

Contribute

Stay informed



knowIT is a collaborative knowledge base with [3484](#) pages about Pharma R&D Informatics systems, relationships between their components and the Business context around them.

To search knowIT, simply use the form at the top of the page.

Getting started ? Take this [Quick tour](#) to get a better idea of how knowIT can help.

Featured content

- ▶ [1134 acronyms and definitions and counting...](#)
- ▶ [3DX Online Help](#)
- ▶ What is [ABCD](#) ?
- ▶ What is [Janssen Today](#) ?
- ▶ What is the [SDLC](#) ?
- ▶ [Map of J&J pharma data sources](#)



If you could not find the answer you were looking for,
Ask your question and we will answer it.

Recent changes

- ▶ [LpxC](#)
- ▶ [Gram-positive bacteria](#)
- ▶ [Antimicrobial](#)

Popular pages

1. [ADNI data](#) - ([195 views](#))
2. [TranSMART](#) - ([164 views](#))

knowIT in a nutshell

- Capture facts about Things
 - Definitions, concepts, questions
 - Locations
 - Organizations, people
 - Data sources
 - Technologies, systems
- Map relationships between these Things
- Both search AND query
 - Query results in multiple formats
- Collaborative
 - Anyone can contribute and share what they know

The screenshot shows the Johnson & Johnson knowIT website. At the top, the Johnson & Johnson logo is on the left, and a user login area on the right says "Welcome: Lalquier | My Site | My talk". Below the logo is the "knowIT" brand name. A search bar on the right contains the text "This site: knowIT". A navigation bar includes links for Home, Browse content, Categories, Topics, A-Z index, and Glossary. On the left, a sidebar titled "View All Site Content" lists sections: News (Announcements, Recent changes), Search (Search Help, Syntax), Explore (Articles, Maps, Queries and reports), Contribute (New Page, Getting started, Markup Cheat Sheet, Useful templates), and Help (Request help, knowIT manual, Contact us). The main content area has a toolbar with Edit page, Edit source, Discussion, Rename, Alert Me, Refresh, and icons for email, print, and social media. Below the toolbar, a section titled "Up to KnowIT data trends" leads to "KnowIT data trends/Categories". A descriptive paragraph states: "This page provides a view of the distribution of content in knowIT ontology. The size of categories is proportional to the number of items." Below this is a large word cloud of terms. At the bottom, it lists "Contributors: Laurent Alquier" with a small icon.

Johnson & Johnson

Welcome: Lalquier | My Site | My talk

knowIT

This site: knowIT

Home Browse content Categories Topics A-Z index Glossary

View All Site Content

News

- Announcements
- Recent changes

Search

- Search Help
- Syntax

Explore

- Articles
- Maps
- Queries and reports

Contribute

- New Page
- Getting started
- Markup Cheat Sheet
- Useful templates

Help

- Request help
- knowIT manual
- Contact us

Edit page Edit source Discussion Rename Alert Me Refresh

Up to KnowIT data trends

KnowIT data trends/Categories

This page provides a view of the distribution of content in knowIT ontology. The size of categories is proportional to the number of items.

Categories

Academic organization — Acronym — Announcement — Application — Article — Building — Business integration layer — Business rule — Categories — Center of excellence — Company — Country — Data class — Data feed — Data layer — Database instance — Database technology — Definition — Desktop — Division — Document — Driver — Drug target — Equipment — Event — FITC account — Functional area — organization — Global therapeutic area — Governmental organization — Group — Hardware — Help page — operating company — JNJ organizational unit — License — Link — Location — Log — Operating system — Organization — Outage — Page — Person — Personal computer — Phy — layer — Program — Programming language — Project — Question — Reference — Region — Room — Runtime environment — Software — Software agent — Software component — Software development kit — Software sensor — Team — Terminology — Text — Topic — Training — Transmembrane protein — Unused categories — Versatile application — Web component — Web server — Web server technology — Workflow — Word

Contributors: Laurent Alquier

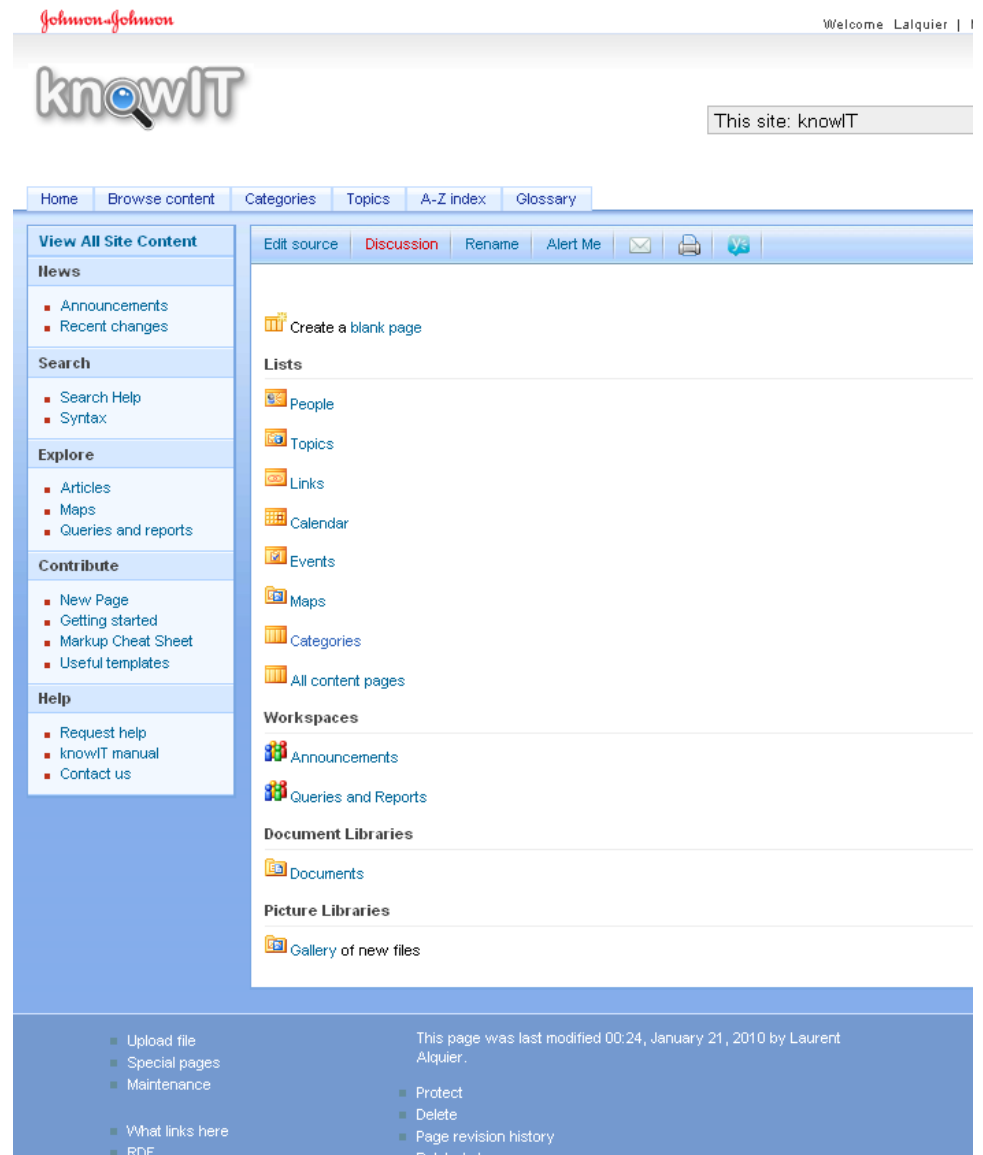
History

- Started in 2002 as knowledge base for Pharma R&D support
- Evolved into a semantic wiki in 2008
 - Focused on mapping out R&D systems, applications portfolio
- As of April 2010
 - Scope extended to Scientific and Business Intelligence content
 - 3700 pages, 690 registered users, 10 active contributors
 - 240 properties, 45,000 values



Interface Usability

- This is NOT SharePoint
 - Familiar interface
 - Consistent with other intranet sites
 - [RILpoint](#) skin
- No login form
 - Automatic login using global directory
 - [NTLM / LDAP](#)
- Reduce 'activation' energy for users



Search

- Hybrid search
 - Based on [SphinxSearch](#) extension
- Semantic annotations
 - Results grouped by **categories**
 - Related keywords, aliases
 - Smart summaries
- Drop down list of common search engines
- Autocomplete in search form
- Content accessible from enterprise search engine

The screenshot displays the knowIT search interface. At the top, there's a navigation bar with links for 'ies', 'Topics', 'A-Z index', and 'Glossary'. A search bar at the top right shows 'This site: knowIT' and a dropdown menu with 'knowit'. Below the navigation bar, there's a section for 'Search results for "knowit"'. A yellow box highlights a message: 'A page using your search term is an alias for KnowIT. Did you mean to search for KnowIT?'. Below this, it lists 'Aliases for knowit : KnowIT (website), Knowit' and 'Keywords for knowit : Knowledge management, Knowledge base, Semantic annotations'. The main content area is titled 'Category:Article' and lists seven search results, each with a title, topics, and a brief description. On the right side, there's a sidebar showing 'Displaying 1-99 of 119 matches for query knowit.' and a list of results grouped by category: Log entry (54), Article (19), Uncategorized (8), Reference (5), Data layer (3), Web application (2), Question (2), System (1), Topic (1), Project (1), Database instance (1), Data source (1), and Ontology (1). At the bottom of the sidebar, there's a section 'Answer not found ?' with links to 'Select a Category', 'Try Alternate search engines', and 'Ask your question to other experts in J&J.'. The footer of the sidebar shows 'Time for query was 1.647 sec.'

ies Topics A-Z index Glossary

New Special page

Search results for "knowit"

A page using your search term is an alias for KnowIT
Did you mean to search for KnowIT?

Aliases for knowit : KnowIT (website), Knowit
Keywords for knowit : Knowledge management, Knowledge base, Semantic annotations

Category:Article

- 1. Importing articles from the Expert Solutions Knowledge Base into knowIT**
Topics: knowIT user manual
This article covers several ways to import old articles from the Expert Solutions Knowledge Base into knowIT.
- 2. How to add knowIT as a search engine for Firefox ?**
Topics: KnowIT user manual,
If you are using Firefox, you can add knowIT to the list of search engines known to your browser
- 3. What is KnowIT**
Keywords: knowledge management,asset tracking,support
Topics: KnowIT user manual,
KnowIT is a collaborative database about Pharma R&D IT systems. It includes information about RED IT systems to help support them as well as documentation, training and solutions to common issues.
- 4. How to load multiple files into knowIT**
Topics: KnowIT user manual,
Load multiple images at once into knowIT. This is useful if you need to create an article with multiple screenshots attached.
- 5. How to link to a file share in knowIT ?**
Topics: KnowIT user manual,
Instructions about ways to create a link to a file placed on a file share in knowIT.
- 6. How to manage synonyms in knowIT**
Topics: KnowIT user manual,
knowIT assumes each page has a unique name. In the event multiple synonyms exist for a page, knowIT allows you to create a single target page and register synonyms as redirections to the target page.
- 7. How can I contribute to knowIT**
Topics: KnowIT user manual,
Anyone can contribute to KnowIT. However, new content will be reviewed and limited to Informatics topics only.

Displaying 1-99 of 119 matches for query **knowit**.

Results are grouped by Category.
Select a Category below to view more results.

- Log entry (54)
- **Article (19)**
- Uncategorized (8)
- Reference (5)
- Data layer (3)
- Web application (2)
- Question (2)
- System (1)
- Topic (1)
- Project (1)
- Database instance (1)
- Data source (1)
- Ontology (1)

Answer not found ?

- ▶ Select a **Category** above to view more results
- ▶ Try **Alternate search engines** .
- ▶ **Ask your question** to other experts in J&J.

Time for query was 1.647 sec.

Explore

[Home](#)[Browse content](#)[Categories](#)[Topics](#)[A-Z index](#)[Glossary](#)

- Many ways to find content
- Browse using Semantic Drilldown
- Categories
 - Customized index depending on page type
- Topic
 - As a table of content or an index
- A-Z index
 - All pages
- Glossary
 - Definitions and acronyms

Community features

- Attribution
 - [ContributionCredits](#) extension
- Personal profile
 - Link to other profiles in J&J
 - [Social Profile](#) extension
- Activity history
- Integration with
 - Forums
 - Microblogging
 - SharePoint

Laurent Alquier 66,650 points (Veteran)
Edit profile | Upload avatar | knowIT page | J&J MySite | SciTech Directory | JJEDS look up | Wiki userpage

Personal information Edit this

Location Raritan, New Jersey

About me I joined Johnson & Johnson in 1999 and I have been involved in application design and support for **Research and Early Development (RED)** since 2001.

Occupation Prior to that, I received a Ph.D in Computer Vision and Image Analysis in 1998, and a degree of Engineer in Computer Sciences in 1994.

Websites More details at : knowIT contact page, MySite (SharePoint), personal online resume, Yammer profile, LinkedIn profile.

Contact page: Laurent Alquier
▶ **eMail:** lalquier@its.jnj.com

Recent activity

- Edited the page **LpxC** on Sat, 24 Apr 2010
- Edited the page **Thread:Help with if clause in template (1)** on Sat, 24 Apr 2010
"Created page with 'Joerg Wegner - " HELP !! do not get the if exclusion fo..."
- Edited the page **Template:Drug target** on Sat, 24 Apr 2010
- Edited the page **Thread:What is a good place for the 'Drug Target' category ? (1)** on Sat, 24 Apr 2010
- Edited the page **Thread:What is a good place for the 'Drug Target' category ? (1)** on Sat, 24 Apr 2010
"Created page with 'I moved the 'Drug target' category under 'Categories -%2..."

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About me I joined **Johnson & Johnson** in 1999 and I have been involved in application design and support for **Research and Early Development (RED)** since 2001.

Occupation Prior to that, I received a **Ph.D in Computer Vision and Image Analysis** in 1998, and a degree of Engineer in Computer Sciences in 1994.

Websites More details at : **knowIT contact page**, **MySite (SharePoint)**, **personal online resume**, **Yammer profile**, **LinkedIn profile**.

Contact page: Laurent Alquier
▶ **eMail:** lalquier@its.jnj.com
▶ **Phone:** 1-908-218-6800
▶ **Location:** Raritan
▶ **Reports to:** Susie Stephens

the Web for Collaborative
next monday, colocated with
0 in Raleigh, NC. It's going to be an
3 week 1 http://www.w3.org
WW2010Workshop

Thread...
@ 2010-04-22T19:48:12Z
ch of examples of how social
i been used to improve employee
int at Johnson & Johnson--
is any best practices.

Thread...
@ 2010-04-22T06:10:44Z
one know if SAP Streamwork is
for use on J&J transforming

Thread...
@ 2010-03-17T00:45:08Z
Last update: Apr/24/2010 16:25:11

Contributors: Joerg Kurt Wegner , Laurent Alquier 

thinking about better ways..."

Flexibility of Semantic MediaWiki

- Self service help
 - Glossary
 - Questions
 - Tips
- Systems portfolio management
 - Inventory
 - Configuration management
- Communications
 - Calendar / timeline of announcements, outages and training sessions
- Service Account Password expiration management
 - With notification by RSS and Email

Knowledge Integration Platform

Visitors can add or edit pages if they notice something missing or incomplete

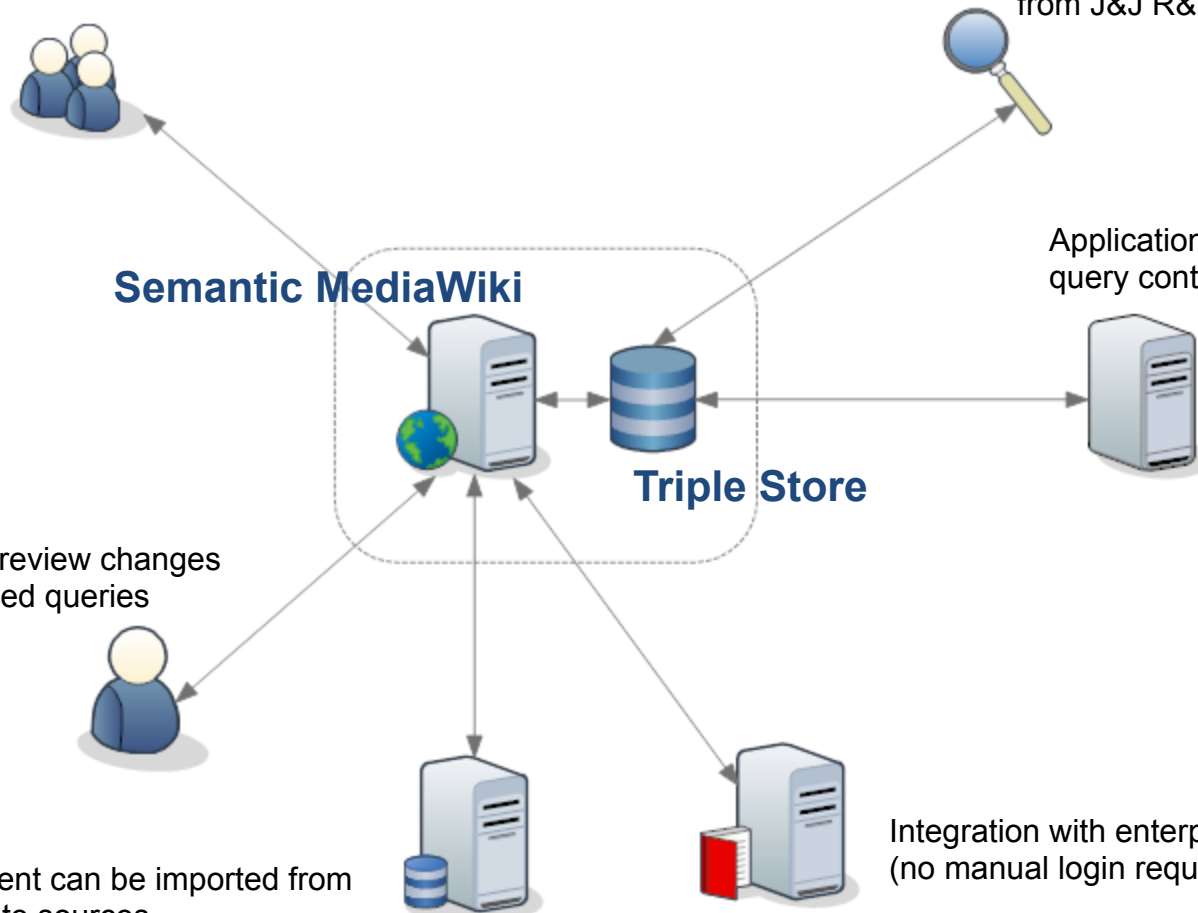
knowIT content can be searched from J&J R&D Universal Search

Applications or remote sites can query content from knowIT

Integration with enterprise directory (no manual login required)

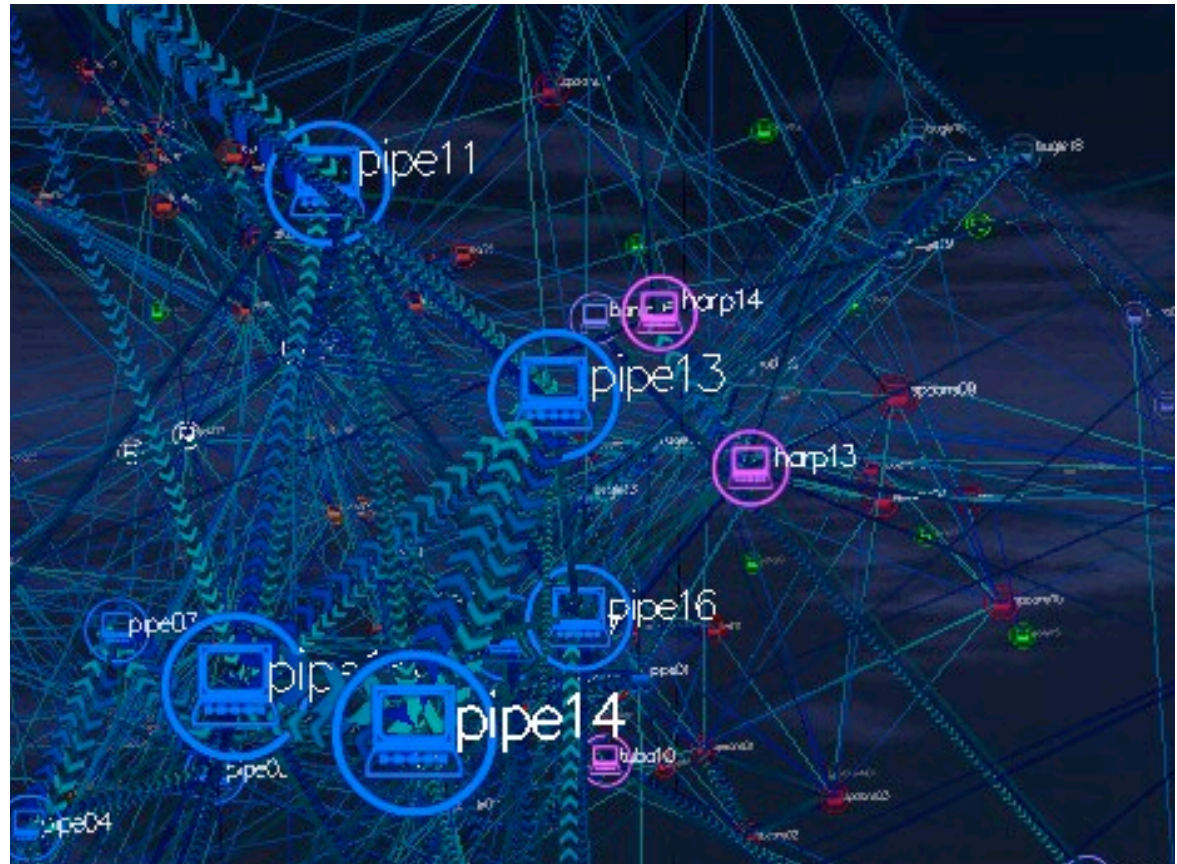
Content can be imported from remote sources

Active editors can review changes and create advanced queries



Data integration challenges

- Retrieving content
 - Access rights
 - Several 'APIs'
 - Sometimes no API at all
- Merging content
 - Common vocabularies
 - Ontologies
 - Synonyms
- Keeping content up to date
 - Content Synchronization
 - Notification of changes



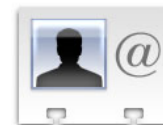
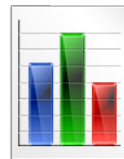
Skyrails

Strengths of Semantic MediaWiki

- Semantic annotations and queries
- Many ways to input and output content.
- Automation available
 - Batch uploads or dynamic queries
- Large library of extensions

XML

OpenLayers



Good practices

- Categories
 - One category per page (Is-a relationship)
 - One template per category
 - At least one form
 - One 'top' category for semantic pages
 - As opposed to 'supporting' categories
- Useful properties
 - Has page title (text)
 - Queries with pattern matching on titles
 - Has class (text)
 - Queries on a single category, without inheritance
- 'Is related to' property vs simple links

Add a New Page

1. Select the type of page you want to create using the links below.
2. Choose a title for your new page and press submit

Categories

The screenshot shows a web form titled 'Add a New Page'. At the top, there are five tabs: 'Documents' (highlighted in orange), 'Data', 'Locations', 'Organizations', and 'People'. Below the tabs, the 'Topic' is set to 'Document'. A list of sub-categories is shown with expandable arrows: 'Article', 'Definition' (expanded to show 'Acronym'), 'Data class' (expanded to show 'Drug target'), 'Link', 'Page', 'Question', and 'Reference'. A text input field for the page title is visible, followed by a yellow 'Submit' button.

Links to wiki pages

- Stable URLs
 - Permalinks, Redirections
- Example of application
 - Glossary

Contents: [Top](#) [0-9](#) [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

- ▶ [All words](#) (1134 terms and acronyms)

number

- ▶ **3DI**
Third Dimension Inventory *(Related to [Informatics and Software Engineering](#)).*
- ▶ **3DP**
Third Dimension Pharmaceutical *(Related to [J&J PRD](#)).*
- ▶ **3DX**
Third Dimension Explorer *(Related to [Informatics and Software Engineering](#)).*

Go

Terms recently added

- ▶ **LpxC**
- ▶ **Antimicrobial**
- ▶ **Gram-positive bacteria**
- ▶ **Human respiratory syncytial virus**
- ▶ **...**

Most popular terms

1. **Diglyceride acyltransferase**
- { 73 views }
2. **3DX** - { 55 views }
3. **GPSG** - { 46 views }
4. **ABCD** - { 45 views }
5. **MD&D** - { 39 views }
6. **COATS** - { 37 views }
7. **Tag Cloud** - { 36 views }
8. **EVE** - { 36 views }
9. **TIP** - { 35 views }
10. **Clinical Trial Data** - { 34 views }


Manual input - Forms

- Single link to add new content
 - Choose from a list of forms
- Standardized input and display
- Captures most semantic annotations
- Free text area for details
- Autocompletion
- [Semantic Forms](#) extension

 [Add a New Page](#)

Add / Edit an article

Edit your Email Signature

Summary:	<div>Edit your Email Signature</div>
Document type:	Tip 
Topics:	Tips and tricks, How To,
Related to:	Microsoft Outlook,
Document scope:	
Sort key:	
Keywords:	
Error message:	

Free text:

```
== Edit your Email Signature ==

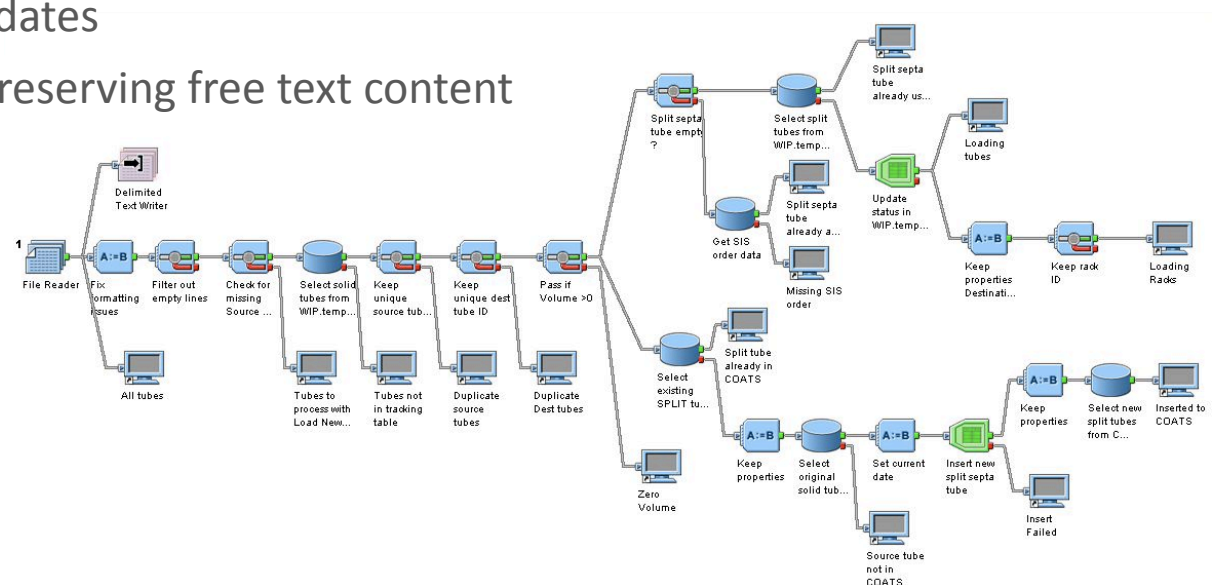
*      Open a new email > Insert tab > Signature > Signatures > E-mail signature
tab > edit the signature in the bottom pane.
*      You can edit the signature in Word and cut/paste into the bottom pane as
well.

[[Image:Outlook-signature.jpg]]
```


Batch import


- Automation
 - Batch creation of pages from XML and CSV files
- Critical to help users with backlog of content
 - Guidance is necessary to break content into pages
- Data transfer extension
 - Great to create new pages
 - Needs better handling of updates
 - Edit template values while preserving free text content

- MediaWiki Bots



Input from remote sources

- External data extension
 - Import from XML or JSON feeds
 - MySQL and LDAP support
 - Oracle ?
- RSS
 - FeedImport extension
- Caching of results

 Google Inc

Summary Business Intelligence


Google finance news f

Using Google To Predict U
Using Google To Pred
an inseparable part o
your favourite showr

Analyst Research on Baid
Analyst Research on
PR-CANADA.net - 3 h
recent news and ever
NASDAQ ...

Glenn Greenberg Buys G
Freddie Mac, Sells Waters
Glenn Greenberg Buy
Freddie Mac, Sells We
concentrated portfolio. He thinks that if he does not want to put at least 5% of the fund
buy it. To understand ...

[more news ...](#)

 Google Inc

Summary Business Intelligence Relationships News

Description Google Inc. maintains an index of Websites and other online content available through its search engine to anyone with an Internet connection. The Company generates revenue primarily by delivering on AdWords program to promote their products and services with thousands of third-party Websites that comprise the Google Network deliver relevant ads that generate revenue and enhance the user Company acquired ReCAPTCHA Inc., a spin-off of Carnegie Mellon Department. In February 2010, the Company acquired Aardvark, acquired On2 Technologies, Inc.

URL <http://www.google.com/>

Address 1600 Amphitheatre Parkway
Mountain View, CA 94043 United States +1-650-2530000 (Phone)

Short name Google

Aliases On2 Technologies, Aardvark, ReCAPTCHA Inc, LabPixies-Reuters

NASDAQ NASDAQ:GOOG ([Google](#), [WikiInvest](#), [Reuters](#))

- Look up in [Wikipedia](#) - [MosaiQ](#) - [Crunchbase](#) - [Pubmed](#) (XML,last year) - [Google trends](#) (C: [Wolfram alpha](#) - [MedWorm](#) (RSS news)
- Look up company and aliases in [Pubmed](#) (all time) (XML (last year)) - [GenomeWeb](#) - [Med](#)

Company

Pubmed publication trend											
Query: "Google Inc"[AD]											
Year	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Publications	0	0	0	0	0	0	4	3	2	2	1



Specialized imports

- Pubmed extension

 ADNI data

Summary	Origin	Content	Access	Clinical trial summary	Demographics	Clinical data	Utilization data	Biomarkers
Data origin	External							
Data source location	Full copy in J&J							
Data provider (vendor)	Alzheimer's Disease Neuroimaging Initiative (ADNI)							
Agreement type	Subscription - Global							
License URL	http://www.loni.ucla.edu/Common/TermsOfUse.pdf							
Funding source	<p>This project is funded for \$60 million, with \$40 million from the National Institute on Aging and National Institute of Bioimaging and Bioengineering, and \$20 million from the Pharmaceutical Industry and several foundations, donated to the Foundation for the NIH. More details available on the ADNI sponsors page and About ADNI funding.</p>							
Pubmed ID	<ul style="list-style-type: none"> ▶ <i>R C Petersen, P S Aisen, L A Beckett, M C Donohue, A C Gamst, D J Harvey, C R Jack, W J Jagust, L M Shaw, A W Toga, J Q Trojanowski, M W Weiner, Alzheimer's Disease Neuroimaging Initiative (ADNI): clinical characterization.</i>, Neurology: 2010, 74(3);201-9, - PubMed:20042704 - RDF - ISSN-1526-632X - Publisher ▶ <i>Adam S Fleisher, Michael Donohue, Kewei Chen, James B Brewer, Paul S Aisen, , Applications of neuroimaging to disease-modification trials in Alzheimer's disease.</i>, Behav Neurol: 2009, 21(1);129-36, - PubMed:19847051 - RDF - ISSN-1875-8584 - Publisher 							

Inline query results


- Semantic results formats extension
 - Graphs, charts, timeline, calendar, ical, vcard, exhibit, outline
- Maps / Semantic Maps extensions

Architectural views > Applications layer

User interfaces

A list of data sources and user interfaces to access them.

Usage:

- ▶ Select from the list to the right to filter the view
- ▶ Switch to Tile view for more details.
- ▶  Export Data feeds to [CSV](#)

TILES • TABLE

sorted by: ; then by: ... ☒ grouped as sorted

1. **ADIII_data**

User interface	Data classes
3DX_Drill_Down	ADAS-Cognitive_Behavior
ADNI_Distributed_Data_Entry_System	Diagnosis_and_Symptoms_Checklist
	ApoE_Genotyping
	Baseline_Symptoms_Checklist
	Clinical_Dementia_Rating
	Exclusion_Criteria
	Functional_Assessment_Questionnaire
	Family_History_Questionnaire
	Geriatric_Depression_Scale
	Inclusion_Criteria
	Clinical_Laboratory_Test
	Medical_History
	Mini_Mental_State_Exam
	Modified_Hachinski
	Magnetic_Resonance_Imaging_(MRI)
	Positron_Emission_Tomography_(PET)
	Neuropsychological_Battery
	Physical_Exam
	Participant_Demographic_Information
	Adverse_Event
	Hospitalization
	Concurrent_Medication

User interface

1 3DX_Drill_Down

1 ADNI_Distributed_Data_Entry_System

Data classes

1 ☒ Academic_Organization

1 ☐ ADAS-Cognitive_Behavior

1 ADME_Finding ☐

1 ADMET ☐

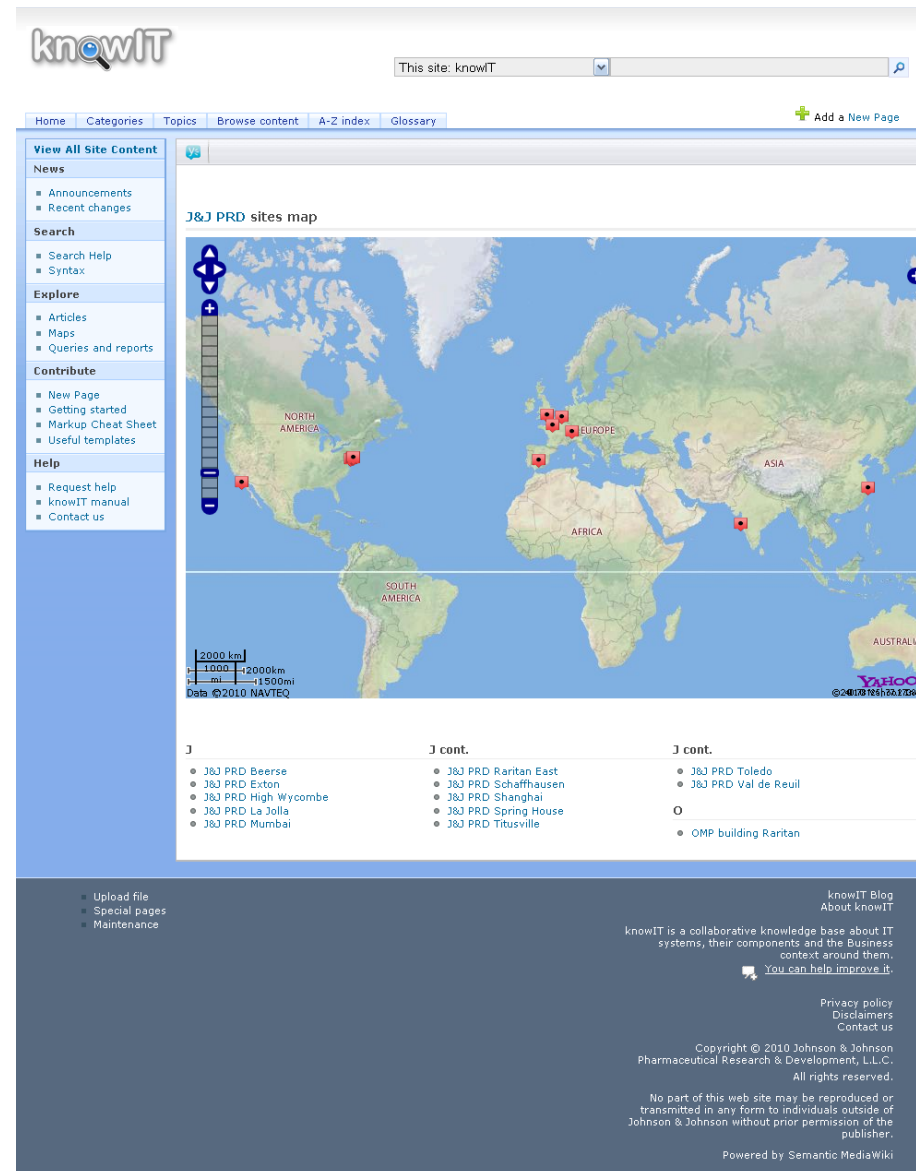
3 Adverse_Event ☐

1 Allele_Frequency ☐

1 ☒ Alzheimer%27s_Disease

Pages with parameters

- [Call](#) extension
- [URLget](#) parser function
 - Use with [Variables](#) extension for better performance
- RunQuery option from Semantic Forms



The screenshot shows the knowIT website interface. At the top, there's a search bar with the text "This site: knowIT" and a magnifying glass icon. Below the search bar is a navigation menu with links: Home, Categories, Topics, Browse content, A-Z index, and Glossary. On the right of the navigation menu is a link "Add a New Page".

The main content area is titled "J&J PRD sites map" and features a world map with red pins indicating locations in North America, Europe, Asia, and Africa. Below the map is a scale bar showing distances in kilometers (0, 1000, 2000) and miles (0, 1500). The map data is attributed to "©2010 NAVTEQ".

Below the map, there are three columns of location names, each preceded by a red pin icon:

J	J cont.	J cont.
<ul style="list-style-type: none">● J&J PRD Beerse● J&J PRD Exton● J&J PRD High Wycombe● J&J PRD La Jolla● J&J PRD Mumbai	<ul style="list-style-type: none">● J&J PRD Raritan East● J&J PRD Schaffhausen● J&J PRD Shanghai● J&J PRD Spring House● J&J PRD Titusville	<ul style="list-style-type: none">● J&J PRD Toledo● J&J PRD Val de Reuil

Below the location lists, there is a link "OMP building Raritan".

The footer of the page contains several links: "Upload file", "Special pages", "Maintenance", "knowIT Blog", "About knowIT", "Privacy policy", "Disclaimers", "Contact us", "Copyright © 2010 Johnson & Johnson Pharmaceutical Research & Development, L.L.C. All rights reserved.", "No part of this web site may be reproduced or transmitted in any form to individuals outside of Johnson & Johnson without prior permission of the publisher.", and "Powered by Semantic MediaWiki".

Indirect integration

- Send wiki pages as emails

- [EmailPage](#) extension

- HTML in wiki pages

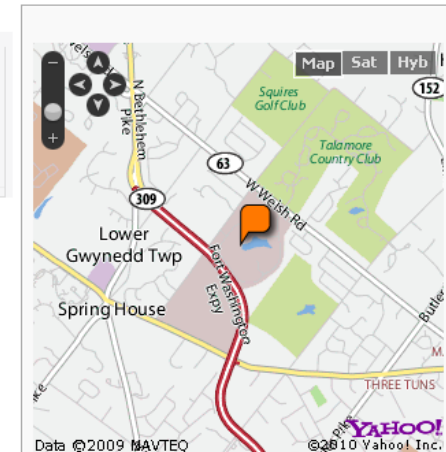
- [SecureHTML](#) extension
 - #shtml parser function

- Example of application

- Geographic locations
 - One click directions to and from building

J&J PRD Spring House

Summary	
Address	Welsh & McKean Roads, Spring House, PA 19477
City	Spring House
Is used by	J&J PRD, Centocor, Cordis
Rooms	



Driving directions

From
Welsh & McKean Roads, Spring House, PA 19477

To
Welsh & McKean Roads, Spring House, PA 19477

Go

Get Directions [My Maps](#)

1000 Route 202, Raritan NJ
Welsh & McKean Roads, Spring House, PA 19477
[Add Destination - Show options](#)
By car

Also available: [Public Transit](#)

Driving directions to E Welsh Rd & McKean Rd, Ambler, PA 19002

Suggested routes

US-202 S 45.6 mi	1 hour 8 mins
US-206 S 60.1 mi	1 hour 13 mins
US-202 S and PA-232 S 49.7 mi	1 hour 19 mins

1000 U.S. 202
Raritan, NJ 08869

A map showing a route from Raritan, NJ to Spring House, PA. The route is highlighted in blue and passes through several towns including Flemington, Readington, and Flemington. The map includes a scale bar and a compass.

SharePoint integration

- SMW to SharePoint
 - Embedded page web part
 - Skin should support an 'embedded' flag
 - XML content web part
 - XSLT can be tricky
 - RSS web part
- SharePoint to SMW
 - Web services
 - jQuery to SharePoint a possibility
 - [SPServices](#)



Triple store connector

- Live synchronization with wiki content
- Included with Semantic MediaWiki
 - RAP
- [Sparql](#) extension
 - Jena TDB
 - Joseki
- [SMW+](#) triple stores connectors
 - Jena
 - Ontobroker



SPARQL query interface

- HTTP gateway to content
 - Inline display of results
 - Export to XML, JSON, TXT, CSV
 - Extension
 - [SPARQL query](#)

SPARQL Query Interface

```
PREFIX knowit: <http://knowit.jnj.com:88
/kb/Special:URIResolver/>
PREFIX rdf: <http://www.w3.org/1999/02/22-rdf-syntax-ns#>
SELECT DISTINCT ?server
WHERE {
  ?server rdf:type knowit:Category-3AServer.
  ?server knowit:Property-3AIs_related_to knowit:COATS.
}
```

submit query

[\[Reset\]](#)

▶ [Properties](#)

▶ [Classes](#)

Sample queries

- ▶ [List of J&J Operating Companies](#)
- ▶ [Pages updated in January 2010](#)
- ▶ [All servers related to COATS](#)
- ▶ [Sources of data for COATS Web data source](#)
- ▶ [All properties defined for "ADNI data"](#)

Use this wiki text to embed this

```
{{#sparql:PREFIX+knowit%3A-
%2Fknowit.jnj.com%3A88%2Fkb%
%0D%0APREFIX+rdf%3A+%3Chttp%
rdf-syntax-ns%23%3E%0D%0AS%
%7B%0D%0A%3Fserver++rdf%3A%
%3Fserver++knowit%3AProperty-
%0D%0A%7D%0D%0A%0D%0A}}}
```

Download results in [XML](#) | [JSON](#) | [CSV](#) | [TXT](#)

server

[knowit:RNDUSDDR SERV](#)
[knowit:NCSPRD07](#)
[knowit:HPX154](#)
[knowit:NCSQAS06](#)
[knowit:HPX155](#)
[knowit:RARUSSUNWIP01](#)

Ask questions using federated queries

The screenshot displays the 3DX Linked Data Visualizer interface. The main window shows a network of data sources represented by blue molecular-like icons. A context menu is open over one of the icons, offering options: Details, View in KnowIT, and Add to List. To the right, a 'Source Treemap' visualizes the data sources as colored rectangles: a large red rectangle for 'PET Imaging MRI', a red rectangle for 'Clinical ADAS-Cog', a purple rectangle for 'Gene', and a white rectangle for 'Genomic SNP'. Below the treemap, the 'Concept Properties' section is empty. At the bottom, a query editor contains a SPARQL query:

```
SELECT DISTINCT(?patient) ?snpdata ?image ?visit ?clinicalendpointdata ?clinicalendpoints WHERE { ?snpdata <http://indusitrd104.na.jnj.com:8891/resource/DataPointSNP>
```

 The '3DX Sheet' dropdown is set to 'session'. The status bar at the bottom indicates 'Ready' and 'Total: 0 Selected: 0 (0%) Filtered: 0 (0%) | Columns: 1'.

New Project - 3DX

File Edit View Select Data Linked Data Tools Help

Table sparql session

Linked Data Visualizer

Source Treemap

PET Imaging MRI

Cholesterol

Gene

Clinical ADAS-Cog

Genomic SNP

Concept Properties

SELECT DISTINCT(?patient) ?snpdata ?image ?visit ?clinicalendpointdata ?clinicalendpoints WHERE { ?snpdata <http://indusitrd104.na.jnj.com:8891/resource/DataPointSNP>

3DX Sheet: session

Building Data Cloud:

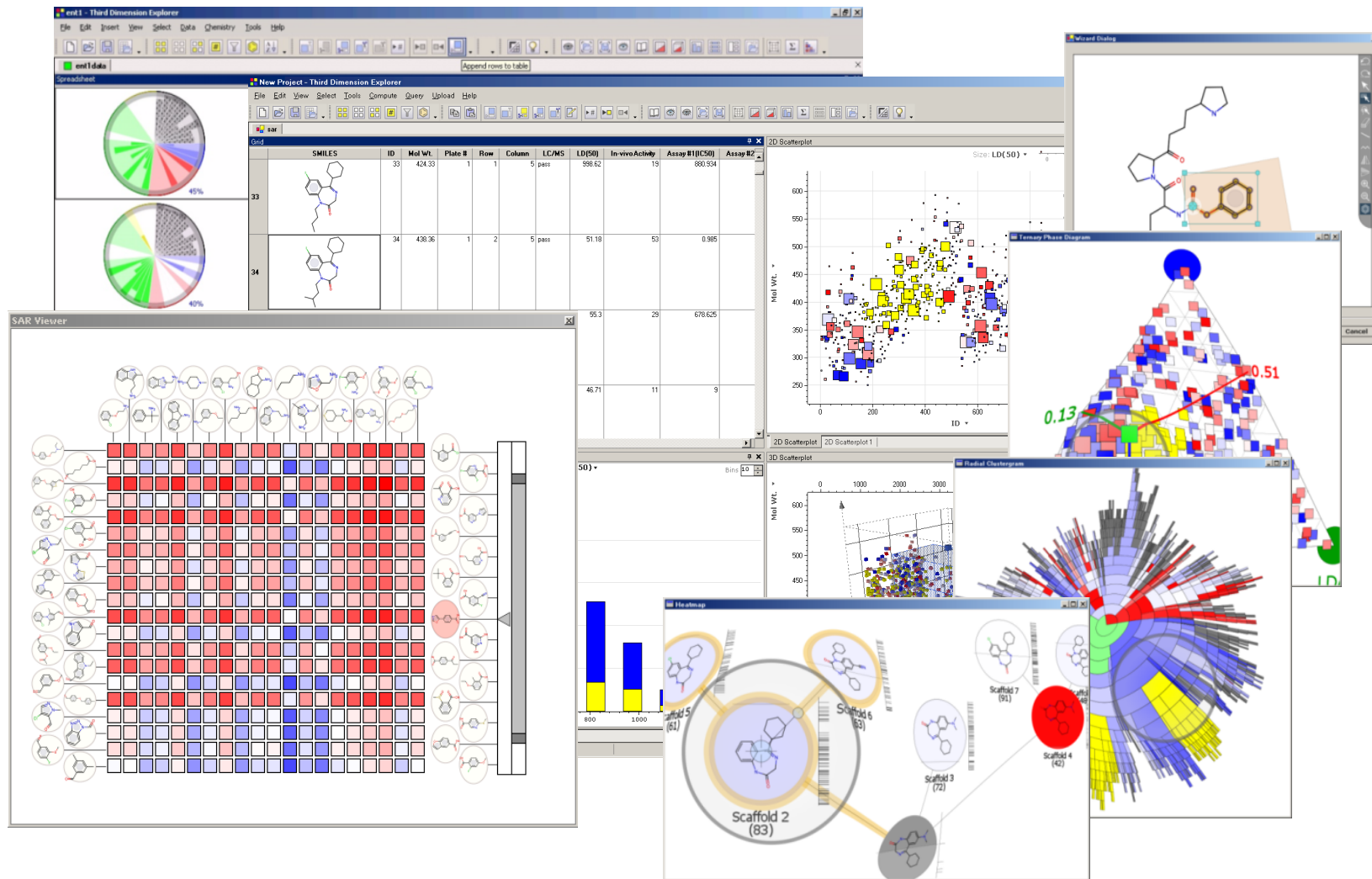
Linked Data Visualizer Spreadsheet

Ready

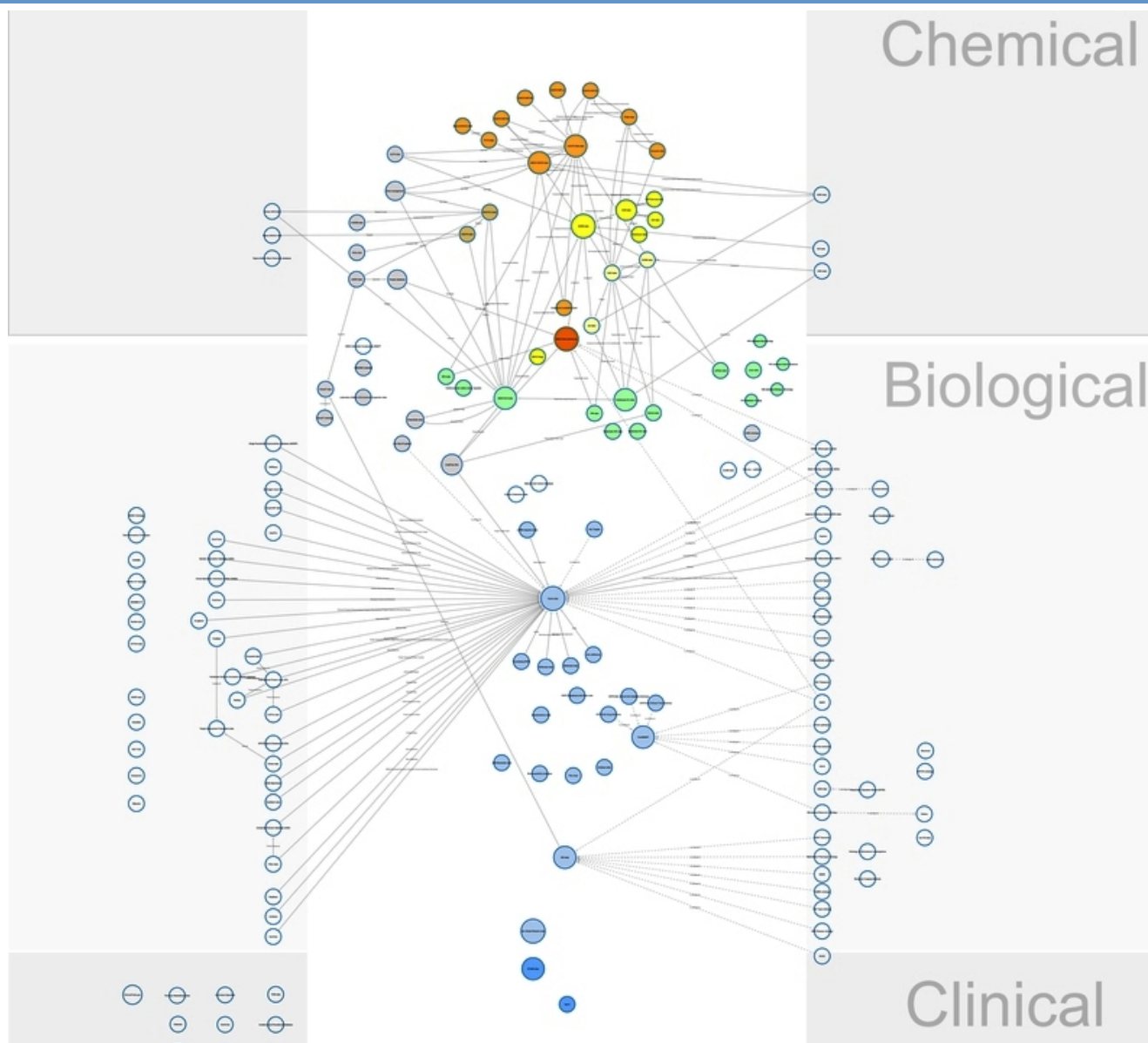
Total: 0 Selected: 0 (0%) Filtered: 0 (0%) | Columns: 1

Data analysis

29



Visualization of data landscape



Incremental enterprise search

Search results for "ADNI data"

A page using your search term already exists : [ADNI data](#)

Keywords for [ADNI data](#) : [Alzheimer](#)

Category: [Clinical_data_source](#)

1. [ADNI data](#)

ADNI uses MRI and PET imaging, as well as laboratory and cognitive testing of 821 normal, mildly cognitively impaired and Alzheimer's disease patients. Among the goals of the study is to provide better tools for carrying out effective clinical trials and identifying biomarkers that can predict clinical outcome.

2. [LONI Image Data Archive \(IDA\)](#)

The LONI Image Data Archive (IDA) is a user-friendly environment for archiving, searching, sharing, tracking and disseminating neuroimaging and related clinical data.

Displaying 1-12 of 12 matches for query ADNI data.

Results are grouped by Category. Select a Category below to filter your results.

[+] Show all results

- [Acronym](#) (2)
- [Clinical data source](#) (2)
- [Project](#) (1)
- [Web application](#) (1)
- [Web server](#) (1)
- [Plugin](#) (1)
- [Link](#) (1)
- [Data feed](#) (1)
- [Academic organization](#) (1)
- [Log entry](#) (1)

[Answer not found ?](#)

Universal Search [SciTech Directory](#) [LINK](#)

C O S A T

 **rduniversalsearch**

Alzheimer SNP

Search

[Help](#)

Answer not found? [Ask J&J experts using LINK!](#)

Searched for: **Alzheimer SNP**

Results **1 - 4** of **4** found [Sort by relevance](#) [Sort by date](#)

› Sources

[All \(4\)](#)

[knowIT \(2\)](#)

[J&J Patents \(2\)](#)

[ADNI data](#)

...Data provider (vendor) **Alzheimer's** Disease Neuroimaging Initiative...Volume Tau Beta Amyloid **Alzheimer's** Disease Mild Cognitive...Single Nucleotide Polymorphism (**SNP**) Human readable Data...20042704, 19847051 The **Alzheimer's** Disease Neuroimaging Initiative...

March 8, 2010 - knowIT

SMW+

- Advanced capabilities
 - Rich text editor
 - User interface for annotations
 - Advanced web services and remote queries
 - Rules, inferencing
 - Improved support of attachments
 - MS Office integration
 - WikiTags

► Editing TestSeiteABC History .html > Projects dashboard > OntologyBrowser > UseWebService > TestSeiteABC >

Page Discussion Refresh History Edit More

Page state: unprotected > Advanced access rights definition

Format: Normal Wikitext

Das **Project Cycle Management** ist ein von der [Deutsche Gesellschaft für Technische Zusammenarbeit \(GTZ\)](#) erarbeitetes analytisches Rahmenkonzept für das Management von Projekten der technischen [Entwicklungszusammenarbeit \(TZ\)](#). Das Ziel ist die Klärung der Rollen, Aufgaben und Zuständigkeiten von Akteuren eines TZ-Projektes.

Grundlage von PCM ist erstens der Lebenszyklus eines Projekts. Demnach durchläuft ein [Projekt](#) die Phasen der Identifizierung, Konzipierung und .

The diagram illustrates the Project Cycle Management (PCM) lifecycle. It features a graph with 'Level of Process Interaction' on the y-axis and 'TIME' on the x-axis, ranging from 'Start' to 'Finish'. The graph shows five overlapping curves representing different phases: Initiation, Planning, Execution, Monitoring & Control, and Closure. To the right of the graph is a circular flow diagram with three arrows forming a loop. The top arrow is red and labeled 'Re-plan and re-negotiate change'. The right arrow is orange and labeled 'Check results against the plan'. The bottom arrow is green and labeled 'Execute'.

In der [Identifizierungsphase](#) wird ein sogenanntes Zielsystem bestimmt. Daraus wird in der Konzipierungsphase ein konkretes Projektkonzept ausgearbeitet. Das Projektkonzept dient als Grundlage für die Durchführung des Projekts. Die Phasen sollen dem Konzept nach jedoch nicht als linear aufeinanderfolgende Stufen verstanden werden sondern es kann jederzeit wieder zurückgesprungen werden. Das Zielsystem kann so wenn nötig jederzeit angepasst werden, sollten es die Bedingungen erfordern.

Die notwendigen Kriterien für eine solche Rückkopplungsschleife bietet ein systematisches Monitoring während der Durchführung. Das Monitoring bildet somit den zweiten wichtigen Aspekt des PCM.

Drittens beinhaltet das PCM ein Drei-Ebenen-Modell der beteiligten Akteure. Auf oberster Ebene handeln die Zielgruppen, die ein Entwicklungsziel in Form

Wishlist

- Better ways to synchronize changes with remote data sources
- Inheritance in forms
 - Propagate fields from category to forms of sub-category
- Handle attachments without leaving Edit page
- A generic way to show relationships
 - Semantic equivalent to 'What links here'
- Robust visualization / exploration of relationships
- Robust query builder
 - Similar to [Parallax](#) for Freebase
 - Persist / share queries

Advanced bulk manipulations

- Better tools for batch updates
 - Query, insert, update from tabular data
 - Automated annotations

New Project - 3DX

File Edit View Select Data Chemistry Query Request Tools Help

knowIT-sample

Spreadsheet

	Title	Compound sample amount, Compound sample
1	ABCD COATS data	Compound sample amount, Compound sample
2	ABCD data warehouse	ADME Finding, Compound, Animal trials, Assay
3	ADNI data	ADAS-Cognitive Behavior, Diagnosis and Safety
4	ALCTD Data	Clinical Trial Data
5	ASDI data	Compound sample request, Compound sample
6	AUTH data	User info, User right
7	AlzGene data	Proteomics, Gene, Single Nucleotide Polymorphism
8	BioCat data	Assay results
9	Biomedical Resource Ontology	
10	CABRI ontology	
11	COATS WIP EU	Compound sample request
12	COATS WIP LJ	Compound sample request
13	COATS WIP RA	Compound sample request
14	COATS WIP SH	Compound sample request
15	COATS Web data	Compound sample amount, Compound sample
16	Cardiovascular safety assay requests	Cardiovascular safety
17	Cell Type ontology	
18	Centricity	
19	Clinical Plus	
20	Dictionary of Natural Products	
21	ECMS data	Project, Team leads
22	EVOC	
23	GCRS data	Compound structure, Molecular weight, Batch, Sample
24	GPRD data	
25	Galaxias	PGx, Clinical samples, Human, Anonymized, Medical
26	Galaxy	Clinical Trial Data, Trial arms, Trial elements, Trial inclusion, Demographics, Concomitant medications, Exposure, Adverse
27	Gene Ontology (GO)	

Wizard Dialog

MediaWiki Query

Data source

Database: [Select a system data source](#)

Username:

Password:

Output options

Table name:

```
1 { (#ask: [[Category:Data source]] [[Is archived::false]]
2 | ?Has data class=Data classes
3 | ?Has relation to jnj=Origin
4 | ?Has purpose=Primary topic
5 | ?Is used by=Used by
6 | limit=500
7 | format = exhibit
8 | facets=Used by, Primary topic, Data classes, Origin
9 | views=tile, tabular
10 }
```

Primary topic

entory

ivity

search

entory

ation

heimer's disease candidate genes

nd sample requests

nd sample requests

nd sample requests

nd sample requests

entory and order tracking

r safety assay requests tracking

Count Submit Cancel

Ready Total: 66 Selected: 0 (0%) Filtered: 66 (100%) | Columns: 4 0.124 sec

Dynamic visualizations of relationships

- Display Interactive relationships networks
 - Dynamic layout
 - Layered views with filters

Nodebox. Perception



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- Dimitris Agrafiotis
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- Joe Ciervo
- Keith McCormick

Resources

- Semantic MediaWiki
 - <http://semantic-mediawiki.org>
- SMW+ / Halo extension
 - http://smwforum.ontoprise.com/smwforum/index.php/Product_tour/overview
- Referata tips for SMW
 - <http://smw.referata.com/wiki/Special:BrowseData/Tips>
- Wiki Patterns
 - <http://www.wikipatterns.com/display/wikipatterns/Wikipatterns>
- RILPoint – SharePoint theme for MediaWiki
 - <http://www.rilnet.com/en/rilpoint-sharepoint-look-alike-drupal-and-mediawiki-skin>
- Cytoscape – Network graph
 - <http://www.cytoscape.org/>

Questions ?



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